

Listing of Claims

This listing of claims will replace all prior versions and listings of claims in the application.

1- 44 (Cancelled per A)

1 45. (first amended per A) [The method of Claim 44] A method of broadband radio frequency
2 analysis comprising the steps of:
3 receiving a frequency hopping radio input signal for broadband analysis, said input signal
4 having segments at different hopping frequencies and different hopping times,
5 for each segment,
6 determining from the input signal a hopping time of the segment,
7 processing the segment to determine a frequency of the segment, and
8 processing the segment to determine signal parameters,
9 where the signal processing includes signal demodulation to form a demodulated
10 signal and where the signal processing includes measuring a symbol rate
11 where the symbol rate is calculated by analysis of zero crossing times in the
12 demodulated signal,
13 where time differences between zero crossings is calculated from zero crossing
14 times,
15 where a TOT histogram is compiled of the time differences as delta TOTs,
16 where a symbol period estimate of a symbol period is formed from a center of mass
17 of a first major peak in the TOT histogram,
18 where the symbol period is calculated by,
19 computing the modulo of the delta TOTs and the symbol period estimate,
20 unwrapping the modulo results about the symbol period estimate,
21 fitting a straight line to the unwrapped data,
22 using a slope of the straight line to refine the symbol period estimate thereby
23 producing a final value for the symbol period.

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1 46. (first amended per A) The method of Claim [45] 1 where the straight line fit uses a least
2 squares fit.

47. (Cancelled per A)

48. (Cancelled per A)